

MEXICAN SUBULINIDAE AND SPIRAXINAE WITH  
NEW SPECIES OF SPIRAXIS

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This constitutes part 6 of a series on Mexican mollusks collected for Dr. Bryant Walker in 1926. The first part appeared (1928) as Occasional Papers Mus. Zool. Univ. Michigan, no. 193, in which the symbols for localities are explained on pp. 2-25. In each new species, the figured shell is the type [University of Michigan Museum of Zoology; part of type lot in Academy of Natural Sciences of Philadelphia.].

SPIRAXIS (VERSUTAXIS) ARCTATUS, new species. Pl. 11, fig. 5.

Shell (pl. 11, f. 5) cylindric turrite, whitish corneous, polished, translucent, with widely spaced incised major growth-lines interspaced with weaker ones. Whorls  $7\frac{1}{2}$ , flat-sided with prominent, overlapping suture. Apex small; embryonic whorls about 2.5, quite rapidly widening; first 2 almost smooth and remainder assuming neanic sculpture. Later whorls lengthening; first with 18 major growth-lines; second with 15; third and fourth with 19; fifth with 18 and last with 20. Aperture trapezoid-lanceolate, with greatest dimension about  $20^\circ$  to shell-axis; peristome slightly thickened, almost vertical and moderately arcuate; columella weakly sigmoid and thickened. Alt. 3.49 mm., diam. 25 (0.86), alt. last whorl 39 (1.35); aperture alt. 24 (0.84), diam. 54 (0.45 mm.).

Below Necaxa (D, I, a, 54), 2625 ft. *S. arctatus* presents in miniature an outline like that of *S. subopeas* but has more widely spaced, stronger growth-lines. It has longer, more flattened whorls than either *S. futilis* or *S. patzcuarensis*, which are of similar size.

S. (VOLUTAXIS)SULCIFERUS ATOYACENSIS, new variety. Pl. 11, fig. 3.

Shell (pl. 11, f. 3) similar to *S. sulciferus* (Mo.) in shape. Embryonic whorls 2.5; last gradually assuming a sculpture of low, relatively closely spaced threads. Later whorls with more widely spaced riblets than in typical form and with interspaces increasing up to last (instead of penult) whorl; first with 25 riblets; second with 15; third with 18; fourth with 22; fifth with 21 and last with 36. Alt. 7.52 mm., diam. 34 (2.55), alt. last whorl 42 (3.16); aperture alt. 26 (1.97), diam. 72 (1.42 mm.); 9 whorls.